



04-14-03

3641

Express Mail No. EL 451 599 978 US

## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Application of: Frattini *et al.*

Confirmation No.: 4759

Serial No.: 10/014,619

Art Unit: \ 3641

Filed: December 10, 2001

Examiner: Palabrica, Ricardo J.

For: *Apparatus and Method for  
Ultrasonically Cleaning Irradiated  
Nuclear Fuel Assemblies*

Attorney Docket No: 9842-306-999

## FEE TRANSMITTAL SHEET

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GROUP 3600

Assistant Commissioner for Patents  
Washington, D.C. 20231

Sir:

The fee required to be filed with the accompanying amendment of even date herewith concerning the above-identified application has been estimated to be \$0.00.

The claim amendment fee has been estimated as shown below:

(Col. 1)0		(Col. 2)		(Col. 3)		<input type="checkbox"/> SMALL ENTITY		<input checked="" type="checkbox"/> OTHER THAN A SMALL ENTITY	
CLAIMS REMAINING AFTER AMENDMENT		HIGHEST NO. PREVIOUSLY PAID		PRESENT EXTRA	RATE	ADDIT. FEE	OR	RATE	ADDIT. FEE
TOTAL	9	MINUS	20	0	x 9	\$		x 18	\$ 0.00
INDEP.	1	MINUS	3	0	x 42	\$		x 84	\$ 0.00
						\$			\$ 0.00
<input type="checkbox"/> FIRST PRESENTATION OF MULTIPLE DEP. CLAIM						TOTAL	\$	OR	TOTAL \$ 0.00

Please charge the required fee to Pennie & Edmonds LLP Deposit Account No. 16-1150.  
A copy of this sheet is enclosed.

Date: April 9, 2003

David R. Owens  
For Gary S. Williams  
PENNIE & EDMONDS LLP  
3300 Hillview Avenue  
Palo Alto, California 94304  
(650) 493-4935

40,756  
(Reg. No.)  
31,066

Enclosure



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*Suppl. C*  
*Cofor*  
*4-22-03*

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*Ultrasonically Cleaning Irradiated*  
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SUPPLEMENTAL AMENDMENT

Assistant Commissioner for Patents  
Washington, D.C. 20231

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Sir:

Prior to examination please enter the following in the above subject application.

In the Claims

Please amend claims 21 and 23 as follows:

21. (Amended Once) An apparatus for cleaning an irradiated nuclear fuel assembly, comprising:

a housing configured to receive an irradiated nuclear fuel assembly; and  
a plurality of ultrasonic transducers that each produce omnidirectional ultrasonic energy waves and positioned on said housing.

23. (Amended Once) The apparatus of claim 21, wherein said housing comprises an elongated housing having a bottom end and further comprising a base plate attached to said bottom end of said elongated housing to support said elongated housing.

Please add new claim 29 as follows:

29. (New) The apparatus of claim 21, wherein said housing is configured to receive an irradiated boiling water reactor nuclear fuel assembly.